**Supplementary File 1. LFY sequences included in phylogenetic analysis (in addition to Sayou et al. 2014 dataset).**

**NCBI (https://www.ncbi.nlm.nih.gov/):**

> Klebsormidium subtile [AHJ90707.1](https://www.ncbi.nlm.nih.gov/protein/586946493)

MQGHGLAGYRDQDSLQQSLDISSQSFHRESLRDQAYFQNVLQSSLQSHALQSQSLQSLQNHGLQSHSLQNNSLQSHSLQSHGGLQSQTLQAMGLQAPEAQNLGIANQGAHNPTAYLSQENPILPHSFNHQFQVQQAGGLSSQQHLPQQTQQVASVAEQFDDSRVMNDLLKDYGVREHTISRMEEEGFNLNTLLSMNDEEVAEAIKMMISECGINFLVGERFGVKMACRSGRKWLEEKRALLENPPAPAPPKKRKRLDGKASQGVSEHVLASLVNGGLENESEEADEETVQKQSELSGRDKSKTTPKKKKGEGDEATSRGPAFQVTAFGEEGHGKKQGLDYLFELYGEAGRILEDIRAQERATGKKPSAKVNNLVYRYAKQRGMGFINKPKMRQYLHCYALHCLDVGTSNAIRMTCRDRNKTLQAWAECCYEPLLQMARVRGYNLESLFQL

SPALAIWNVPKQLEKLCEEEKDRLGELGSGQLDQQPLPPPHRQGA

> Nothoceros aenigmaticus [AHJ90704.1](https://www.ncbi.nlm.nih.gov/protein/586946487) MGQKDVAVRHRDALMVHKDNSLGPRESRVLDQGFSSMGRREAKTLDELFRDYGVRPSTLETVAQMGFTVGTMINMTDDELDSLIKTMIENYRVDLLVGEKFGIKSAVRAERRLLDEVDRVRIEMKARTESMMELKGQYKVSDCGTGLGGVAMVSGGNGAAPGGLANVCAPSPKLAATKARKKKDIKDELSHPLLSGNVLAAMSPGALPGLLSELSSDSGKVDLGKRRAKRKRKVKEPGEEGDDRPREHPFVVTEPGELARGKKNGLDYLFNLYEQAGKFLEEVQHIAREKGEKCPTKVTNQVFRHAKVQGAGYINKPKMRQYVHCYALHCLASDKSDELRRCCKERGENVGAWCQACYLPLIKMAKEKSWDIEGLFNSHDKLKIWYVPKKLIQLCHQEKSK

> Coleochaete scutata [AHJ90705.1](https://www.ncbi.nlm.nih.gov/protein/586946489)

MANSQYKNLDTLFHNYGLRPDTLAVMNQMGFTVSTLCNMTEQEIDIMVKMMVENLNMDLLQGEKFGIKAAIRSERRQLEEAMERSRVEATGFGARKFHLDEEPVLMALPESTQMHPPVENGVARVVAKGKKRMDEGEHQQGGSVDSNGWRQVNEAMVGDPLQFDAPVVDDGDGLKKKPKKQKRQKEPDGEEERPREHPFVVTEPGEAARGKKNGLDYLFQLYEESAKLLIEIQQLSLEKGEKVPTKVTNQVFRHAKQRGMGFINKPKMRQYVHCYALHCIAPAESKQAATRLQGAWRKCWPVVSGMLRATRVHCEGPRMGFGSHIQQP

>Pisum sativum AAC49782.1 UNIFOLIATA

MDPDAFTASLFKWDPRTVLSTAPSPRPQLLDYAVTPTTAPMTYHPARLPRELGGLEELFQAYGIRYYTAAKIAELGFTVSTLVDMKDDELDDMMNSLSQIFRWDLLVGERYGIKAAIRAERRRLDEEEIKRRGLLSGDTTNALDALSQEGLSEEPVVQREKEAMGSGGGSTWEVAVVEERRKRQQIRRRRMKMKGNDHGENEEGEEEEEDNISGGGVGGGERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCREFLIQVQAIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEVSNELRRGFKERGENVGAWRQACYKPLVAIAARQGWDIDAIFNAHPRLSIWYVPTKLRQLCHAERNGAAASSSVSVGTTHLPF

>Cucumis sativus XP\_004138016.1

MDPETLSATLFKWEPREMVGGGSGAPLPAPLPPYSLRPRELGLGGLEDLFQAYGIRYYTAAKIAELGFTVSTLVDMKDEELEDMMNSLSHIFRWDLLVGERYGIKAAVRAERRRLDDEIESSRRRHLLSNDTTTNVVLDALSQEGLSEEPVQQEKEAVGSGGGGGAWEAVVAAEMRKKQRRRNGSKKKQVIAMEEDNDENEGAGDEEENMEVSERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCREFLIQVQNIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEASNALRSVFKERGENVGAWRQACYKPLVTIAGTQGWDIDAIFNAHPRLAIWYVPTKLRQLCHAERNGSTASTSTASAHLPF

>Medicago truncatula AAX22220.1 SGL1

MDPDAFTASLFKWDPRTVLPTAPPLRPQLLDYAVTPSTAPSPYYPARLPRELGGLEELFQAYGIRYYTAAKIAELGFTVSTLVDMKDDELDDMMNSLSQIFRWDLLVGERYGIKAAIRAERRRLDEEEIKRRGLLSGDTTNALDALSQEGLSEEPVVQREKEAVGSGGGSTWEVAVVEERRKRQQIRRRRMKMKGNGDHGENEEGDEEEEDNISGGGERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCREFLIQVQAIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEVSNELRRGFKERGENVGAWRQACYKPLVAIAARQGWDIDAIFNAHPRLSIWYVPTKLRQLCHAERNSAAASSSVSVGTAHLPF

>Antirrhinum majus AAA62574.1 FLO

MDPDAFLFKWDHRTALPQPNRLLDAVAPPPPPPPQAPSYSMRPRELGGLEELFQAYGIRYYTAAKIAELGFTVNTLLDMRDEELDEMMNSLCQIFRWDLLVGERYGIKAAVRAERRRIDEEEVRRRHLLLGDTTHALDALSQEGLSEEPVQQEKEAMGSGGGGVGGVWEMMGAGGRKAPQRRRKNYKGRSRMASMEEDDDDDDDETEGAEDDENIVSERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQTIAKERGEKCPTKVTNQVFRYAKKAGANYINKPKMRHYVHCYALHCLDEAASNALRRAFKERGENVGAWRQACYKPLVAIAARQGWDIDTIFNAHPRLSIWYVPTKLRQLCHAERSSAAVAATSSITGGGPADHLPF

>Petunia x hybrida AAC49912.1 ALF

MDPEAFSASLFKWDPRGAMPPPNRLLEAVAPPQPPPPPLPPPQPLPPAYSIRTRELGGLEEMFQAYGIRYYTAAKITELGFTVNTLLDMKDDELDDMMNSLSQIFRWELLVGERYGIKAAIRAERRRLEEEEGRRRHILSDGGTNVLDALSQEGLSEEPVQQQEREAAGSGGGGTAWEVVAPGGGRMRQRRRKKVVVGRERRGSSMEEDEDTEEGQEDNEDYNINNEGGGGISERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQNIAKERGEKCPTKVTNQVFRFAKKAGASYINKPKMRHYVHCYALHCLDEDASNALRRAFKERGENVGAWRQACYKPLVAIAARQGWDIDAIFNGHPRLSIWYVPTKLRQLCHSERSNAAAAASTSVSGGGVDHLPHF

>Nicotiana tabacum AAC48985.1 NFL1

MDPEAFSASLFKWDPRGAMPPPTRLLEAAVAPPPPPPVLPPPQPLSAAYSIRTRELGGLEELFQAYGIRYYTAAKIAELGFTVNTLLDMKDEELDDMMNSLSQIFRWELLVGERYGIKAAIRAERRRLEEEELRRRSHLLSDGGTNALDALSQEGLSEEPVQQQEREAVGSGGGGTTWEVVAAVGGGRMKQRRRKKVVSTGRERRGRASAEEDEETEEGQEDEWNINDAGGGISERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQNIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEASNALRRAFKERGENVGAWRQACYKPLVAIAARQGWDIDTIFNAHPRLAIWYVPTRLRQLCHSERSNAAAAASSSVSGGVGDHLPHF

>Nicotiana tabacum AAC48986.1 NFL2

MDPEAFSASLFKWDPRGAMPPPTRLLEAAVAPPPPPPALPPPQPLSAAYSIKTRELGGLEELFQAYGIRYYTAAKIAELGFTVNTLLDMKDEELDDMMNSLSQIFRWELLVGERYGIKAAIRAERRRLEEEELRRRGHLLSDGGTNALDALSQEGLSEEPVQQQEREAVGSGGGGTTWEVVAAAGGGRMKQRRRKKVVAAGREKRGGASAEEDEETEEGQEDDWNINDASGGISERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQNIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEASNALRRAFKERGENVGAWRQACYKPLVAIAARQGWDIDTIFNAHPRLAIWYVPTKLRQLCHSERSNAAAAAASSSVSGGGGGGDHLPHF

>Eschscholzia californica AAO49794.1 floricaula-like protein

MDPDAFTVGLYKWDPRGVVAPPPQPPPSNRLFEAIMTPTPMSYTIRPREYQQQQQIITGGIEDFFQAYGIRYYTAAKIAELGFTVSTLLDMKDEELDDMMNSIYHIFRWDLLVGERYGIKAAVRAERRRLEDDESRRRHLLTSETTTNPIDALSQEGLSEEPVQQEKEAAGSGGGGAWEVVLKEKKKIMKKKKQQRRRKQIEQGVADPEEDDDDDDEEEEDNNGGGGGGIERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQNIAKERGEKCPTKVTNQVFRFAKKAGASYINKPKMRHYVHCYAFHCLDEEASNALRKGFKERGENVGAWRQACYEPLVAMAARQGWDIDGIFNAHPRLSIWYVPTKLRQLCHAQRRTTTTNTTTVTTSSSVAALGAVTGPGHVF

>Gerbera hybrid cultivar ANS10152.1

MDPDAISASLFKWDPRAALAPPSSRLYEPITLQQPPPPPPPPPTMAVGSTATGGYLVRQSRDLGGLEEVFHAYGIRYLTATKIAELGFTANTLLDMKDEELDEMMNSLSHIFRWDLLVGERYGIKAAVRAERRRLDEEESRRRYILSSDATNTLDALSQEGLSEEPVQQENEAAGSGGGGAWDMAAMGGGGAGVKTTKQGHRRGKKTGLVRGRMGSSSQVGGDDNYENESDDDPENGGAGAGVVERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCREFLIQVQSIAKERGEKCPTKVTNQVFRFAKKAGASYINKPKMRHYVHCYALHCLDEDASNALRRAFKERGENVGAWRQACYKPLVTIAARQGWDIDAIFNTHPRLSIWYVPTKLRQLCHAERSSAAIVAAAASSSVAGGGGGGGHLHF

>Populus trichocarpa AAB51533.1 FLORICAULA/LEAFY homolog

MDPEAFTASLFKWDTRAMVPHPNRLLEMVPPPQQPPAAAFAVRPRELCGLEELFQAYGIRYYTAAKIAELGFTVNTLLDMKDEELDEMMNSLSQIFRWDLLVGERYGIKAAVRAERRRLDEEDPRRRQLLSGDNNTNTLDALSQEGFSEEPVQQDKEAAGSGGRGTWEAVAAGERKKQSGRKKGQRKVVDLDGDDEHGGAICERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCRDFLIQVQSIAKERGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEDASNALRRAFKERGENVGAWRQACYKPLVAIASRQGWDIDSIFNAHPRLAIWYVPTKLRQLCYAERNSATSSSSVSGTGGHLPF

>Lotus japonicus AAX13294.1 transcription factor LFY

MDPDAFTASLFKWDPRTVLPTTGPLRPPLLDYAVAPPPAPAAVYHPARAPREIGGLEELFQAYGIRYYTAAKIAELGFTVSTLVDMKDDELDDMMNSLSQIFRWDLLVGERYGIKAAVRAERRRLDEEDMKRRNLLSTDTTTNALDALSQEGVNKFVGLSEEPVVQREKEVVGSGGGSTWEVAVVAEERRKKQRRRSRMKQHGDDNEEGEDEEGEDDDEGNNNSGGGGGCERQREHPFIVTEPGEVARGKKNGLDYLFHLYEQCREFLIQVQAIAKDRGEKCPTKVTNQVFRYAKKAGASYINKPKMRHYVHCYALHCLDEEVSNELRRGFKERGENVGAWRQACYKPLVAIAARQGWDIDAIFNAHPRLSIWYVPTKLRQLCHAERNSAAASSSVSVGTAHLPF

>Pinus radiata AAB51587.1 FLORICAULA/LEAFY-like protein

MDPESFSAAFFKWDQRPPALAPPQMQRSAGLEAQRIFHDFGVPNAAAMAASNNSSSCRKELNCLEELFRNYGVRYITLTKMVDMGFTVNTLVNMTEQELDDLVRTLVEIYRVELLVGEKYGIKSAIRAEKRRLEEAERKRMEQLFVDVDGKRKIDENALDTLSQEGLSVEEPQGDNAIILSQNNTSANFPLNLNAGMDPVLILQNSGHLGTTVSGLIGMPDTNYGSEQTKACKKQKRRRSKDSGEDGEERQREHPFIVTEPGELARGKKNGLDYLFDLYEQCGKFLLDVQHIAKERGEKCPTKVTNQVFRHAKHSGAGYINKPKMRHYVHCYALHCLDIEQSNRLRRAYKERGENVGAWRQACYYPLVAMAKDNGWDIEGVFNKHEKLRIWYVPTKLRQLCHLEKSKQSHL

>Pinus radiata AAB68601.1 FLORICAULA/LEAFY-like protein NDL

MDAEHFPVGFFRWDQRPAPVVAAAAAPTTTVFNKDHGRPLEVILPMNGRKDLKSLEDLFKEYGVRYVTLAKMTEMGFTANTLVNMTEEEIEDLMKTLVELYHMDLLIGERYGIKSAIRAEKKRLQDSLEMQRLEILSEAERKRILHDDQNTFAAAMASEGTSKELRANDPLIFPESTSADHAPMNIASCKDSTLILQNSNQAQFCGSGLIGVPEHSSESDERKADTNKQKRRRSKEPGEDGEDRPREHPFIVTEPGELARGKKNGLDYLFDLYEQCGKFLLEVQRIAKEKGEKCPTKVTNQVFRHAKHNGAVYINKPKMRHYVHCYALHCLDSEQSNHLRRLYKERGENVGAWRQACYYPLVAIARENNWDIEGIFNRNEKLKIWYVPTKLRQLCHMERSKECQ

>Picea abies AAV49504.1 LEAFY-like protein

MQRGGGLEAQRVFHDFGVPNAAAMTSNNSGSCRKELNCLEELFRHYGVRYITLTKMVDMGFTVNTLVNMTEQELDDLIRTLVDIYRVELLVGEKYGIKSAIRAEKRRLDEAERKRMEQLFVDVDGKRKIDENALDTLSQEGLSVEEPQGDNAIILSQNNTSASFPLNLNAGMDPVLILQNSCHLGTTVSGLIGMPDSNYGSEQTKGCKKQKRRRSKDSGEDGEERQREHPFIVTEPGELARGKKNGLDYLFDLYEQCGKFLLDVQHIAKERGEKCPTKVTNQVFRHAKHSGAGYINKPKMRHYVHCYALHCLDVEQSNRLRRAYKERGENVGAWRQACYYPLVAMAKDNGWDIEGVFNKHEKLRIWYVPTKLRQLCHFEKSKQSHL

>Picea abies AAV49503.1 NEEDLY-like protein, partial

MTEMGFTANTLVNMTEEEIEDLMKTLVEIYHMDLLIGERYGIKSAIRAEKKRLQDCLEMQRLEILSEAERKRILHDDQNTFAAAMTSEGTSKELRANDPLIFPESTSADHAPMNIASCKDSTLILQNSNQAQFCGSGLIGVPEHSSESDERKADTNKQKRRRSKEPGEDGEDRPREHPFIVTEPGELARGKKNGLDYLFDLYEQCGKFLLEVQRIAKEKGEKCPTKVTNQVFRHAKHNGAVYINKPKMRHYVHCYALHCLDSEQSNHLRRLYKERGENVGAWRQACYYPLVAIARENNWDIEGIFNRNEKLKIWYVPTKLRQLCHMERSKECP

>Matteuccia struthiopteris AAF77608.1 MatstFLO

MDPEQFPSSLFRWDQRVIPRKEVPSMEVPLLPAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKDSDSCSYE

**Phytozome v12.1 (https://phytozome.jgi.doe.gov/pz/portal.html):**

>Marchantia polymorpha Mapoly0113s0034.1.p

MDPRLDHSRMDPRMDPRLDPRMEPRMDPRMDARSMDPRLEQRMDGRMMQPSADNRSFEFGFTTAGGRREVRTLEDLFHGYGVRIATLAKMTEMGFTVSTLVNMTEAELDDVIQTISDILQMELLVGERYGIKSAVRAEKKHLEEELERQRLELLTKSERKRKLDEVTSALVTKEGVFPILAHTLKKQKIFSRVSPTSSMTFVGEGSGDASPGTVSEQRRESAMMMPESIAPVNALNLNSKEPPLLMGAGHSSLTPGLLALAENSSDSEDKRLGKKKQKRRRPKEHGEDGEDRPREHPFIVTEPGEAARGKKNGLDYLFDLYEQCGKFLEQVQQLAREKGEKCPTKVTNQVFRHAKHTGAGYINKPKMRHYVHCYALHCLDIDQSNALRKLYKERGENVGAWRGACYYPLVAMARDNNWDIEGLFNRNEKLRIWYVPTKLRQLCHVEKVKYGE

>Spirodela polyrhiza32G0007500  
MDPADEFSAAANPFRCWDLRMGHPNRLIEAAASLLAAQVEAAPPGRGELEEMFQAYGVRYQTVEKIGELGFTVSTLAAMREEELEDMMAALCHVFRWELLVGERYGIKAAVRTERRRRQLDGFFQLDEEEQRRRRHVVSPDSGALDALSQEGLSEERVQQEREAVASGGEAWEGHKKKKTNTSTRRNKKTTTKKKKNEEEEEDGEEEDDDDDEEEDGEGECEGKVPGCGAAAGGERQREHPFIVTEPGEVARGKKNGLDYLFHLYDQCRDFLLQVQSISRERGHKCPTKA

>Zostera marina27g00160.1  
MDPSDAFSASMFRWDPRTAVGFYGGPPLTSPQQQQQQQHQQMQQVQQQQQQQQAAPISGGGGVVGRLVVVRELDEIFQSYGVRYATVERIRELGFTASTLVGMKDDEIDDMMGTLCHLFRWELLVGERYGIKAAVREERRRVDFTVDGRRNTGAAPASFFRGDSHYILDALSQEGLSEEPVQQDNEAAGSGGEVGGGGHKIKQKQRRGSSSKKSPTQQKPRKQKKVVVLEDDDEDIGDDEDDDGSKSGGCGGSSTGGGERQREHPFIVTEPGEVARGKKNGLDYLFHLFDQCREFLIQVQNQAKENGEKCPSKVTNQVFRYAKKSGASYINKPKMRHYVHCYALHCLDEEVSNELRRTFKERGENVGAWRLACYRPLVLIASHHAWDIDAVFAAHPRLAVWYVPTTLRQLCHHARSNAAVNVNATVSASGAAPPSSSVHHGGCAGNNGLPALF

>Aquilegia coerulea 5G327800.1  
MDPEAFSAASLYKWERAAAAAAAPQHHHRLQFEPMALPPSPPPPQPSLPSYCVTRPPRELLLTLEDFFQPYGIRYTMIAKIAELGFTVSTLLDMRDEELDEMMITLSQIVRLDLLVGEKYGIKAAIRAERRRYHVLLGGGAAGGHVDNTTNPLDALSQGGLSEEPVMKEAAGSGGGTWDMVSAGEKRKKKNKAQRSRKARNSGDENYDDEDDEEDAAGERGCGRHRQREHPFVVTEPGEVARGKKNGLDYLFHLYEECRQYLIQVQNIAKDRGEKCPTKVTNQVYRHAIQAGATHINKPKIRHYVHCYALHCLDEEASNALRKAFKDRGENVGAWRQACYEPLVKFASDHHYDIDCIFNDHPRLSIWYVPTKLRKLCHAQRNNVASTSNSASF

**One Thousand Plants (1KP) project (https://db.cngb.org/blast/):**

>Isoetes\_tegetiformans:PKOX\_scaffold\_2013584

RREAKCLEELFRDYGIRVSTLAKMTELGFTVSTLLNMTEQELEDIINAMVETYRIDLLVGERYGIKAAIRAERRLINEEAETQRLRSLCKSEKKRKQVEDALNEGAKENGNLFLGGSIYLDTDDPILTGQQSQSLTTGVLALREHSSESDGESHGKKKQKRRRPRELGDDGEDRPREHPFIVTEPGELARGKKNGLDYLFDLYEQCGRFLEEVQHICRERGEKCPTKVTNQVFRHAKHTGASYINKPKMRHYVHCYALHCLDTNHSNHLRKLFKDRGENVGAWRQACYYPLVELARANNWDIEGVFNRNDKLRIWYVPTRLRQLCHIEKSKE

>Selaginella\_kraussiana:ZFGK\_scaffold\_2008343 tips of shoots

MDPEGSFPGALFRTWEPRMAPPPAVAAAAIHPSSGASSSSVAAAAAAAAPRIDPPPRAFEFGFASVRRESKTLDELFKDYGVRMSTLSKMTELGFTVQTLVNMTDQELEDVIKTMLESYHVELLVGEKYGIKSAIRAERKLIDDELERQRSKTQQQQQPKRRKPDEVVPSTTGTATTTAAVVSTIRDGSLKEPRRDSGSLAEIAPKEPNLVGQSSQVVVASSMPVESNGNGSDGERKRKKKQKRRRSKDDGEDGEDRPREHPFIVTEPGELARGKKNGLDYLFDLYEQCGKYLEEVQQQCKERGEKCPTKVTNQVFRHAKHRGASYINKPKMRHYVHCYALHCLDLEQSNHLRKLFKDRGENVGAWRQACYFPLVEMARSFNWDIEGVFSRNEKLRIWYVPTRLRQLCHLEKSKQ

>Sceptridium\_dissectum:EEAQ\_scaffold\_2003960 sterile leaf

PTNRKQMKSLEELFKDYGVRITTIAKVVEMGFTVSTLVNMTEQEIDDVIKTILDGYHIELLVGERYGFKSAIRAEKRRHEEEVERQRLQLLSRSGKKRKTDETAVATTSLEGLQREQRADNDLMFPDAVAMVGPLNLNSKEPVLLEQNHTHFGAPALLAIPEPSSDNEKRKLGRKKQKRRLSREPGEDGDDRTREHPFIVTEPGELARGKKNGLDYLFDLYEQCARFLDEVQQISKERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDLEQSNHLRKLYKDRGENVGAWRQACYYPLVEMARQNGWDIEGVFNRNEKLRIWYVPTKLRQLCHIEKSKD

>Equisetum\_hymale:JVSZ\_scaffold\_2012838 sterile leaves/branches

PPPPTRSLDDLFQDYGVRAATVAKVAEMGFTVSTLVNMTELEIDDLVQALLDGFHPDLLVGEKYGLKSAIRAEKRRLEEDMNRQRLQILLKAGKKRAADESNKGAALEGQRVSREHQGDNDMGFADVVVSAGPLNLNSKEHVLLEQNRLNFGTPGLLSFPEPSSDNEGRKGGRKKKNRLLSQENGEDVDDRQREHPFIVTEPGELARGKKNGLDYLFSLYEQCAKFLEEVQQMSKERGEKCPTKTHGLQVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDIEQSNHFRKLYKERGENVGAWRQACYYPLVEMARRNGWDIEGVFNRNEKLRIWYVPTKLRQLCHVEKSKD

>Equisetum\_diffusum:CAPN\_scaffold\_2005353 tips of shoots

LEDLFQGYGVRAATIAKVAEMGFTVSTLVNMTEPEIDDLVQALLDDGFRHPPDNLLVGEKYGLKSAIRAQKRCLEEDMNRQRRSSSRLDDHKTSNGAGAGVSLAGGERVSREHQGDDDMGFADVVASVGPLNLNSKEHVLLEQNRLNFGTPGLLSFPEPSSDNEGRKGGRKKKSRLLSQENGEDVDDRQREHPFIVTEPGELARGKKNGLDYLFSLYEQCAKFLEEVQQMSKERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDVEQSNHFRKLYKERGENVGAWRQACYYPLVEMARRNGWDIEGVFNRNEKLRIWYVPTKLRQLCHVEKSKD

>onekp:YOWV\_scaffold\_2068436 Cystopteris\_protrusa sterile leaves

VPSMEAPLLPAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDPVALNGPLNLNSKDHTQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:AFPO\_scaffold\_2074266 Athyrium sp. gametophyte

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>onekp:RFRB\_scaffold\_2035413 Didymochlaena\_truncatula young fronds

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:UFJN\_scaffold\_2002777 Diplazium\_wichurae fertile leaf

PSATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:VITX\_scaffold\_2098665 Blechnum\_spicant young leaf

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQENSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:FQGQ\_scaffold\_2001052 Polystichum\_acrostichoides ster & fert leaves

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKIARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:YJJY\_scaffold\_2006838 Woodsia\_scopulina young sterile leaves

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNVMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:MROH\_scaffold\_2048633 Thelypteris\_acuminata young leaf

PASSNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNSWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:JBLI\_scaffold\_2100752 Bolbitis repanda leaf

PTATSTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKIARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:HNDZ\_scaffold\_2012192 Cystopteris\_utahensis mostly sterile leaf

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDPVALNGPLNLNSKDHTQQEHSHVQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:HEGQ\_scaffold\_2080968 Gymnocarpium\_dryopteris young sterile leaves

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRLEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDPVALNGPLNLNSKDHTQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:WGTU\_scaffold\_2004634 Leucostegia\_immersa young leaves

PAATNTKQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLVAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAAALNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNDKLRIWYVPTKLRQLCHLEKSKD

>onekp:ZQYU\_scaffold\_2008636 Polypodium\_plectolens leaf

PATTNTKQLKLLEELFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMDLLVGEKYGLKSAIRAEKKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVAHNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKSARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:MTGC\_scaffold\_2008394 Dennstaedtia ?

PATTNTKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMDLLVGEKYGLKSAIRAERKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVALNGPFNLNSKEHAQQENSHAHTQFGPPGLLALPEPSSDNEGRKLGRKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNDKLRIWYVPTKLRQLCHLEKSKD

>onekp:GANB\_scaffold\_2069908 Cyathea\_spinulosa leaves

PPAATNSKQLKLLEDLFKDYGVRTTTIIKVMEMGFTVNTLVNMMEQEIDDVIKTMMEGYHMELLVGEKYGLKSAIRAEKKRQEEEMERQRLQLLAKNGKKHKSDDSGMVATSAEGTREQRGDNGMMFPNAVAANGPLNLNSKEHAQQEHSHAQFGPPGLLAIPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKMFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:ORJE\_scaffold\_2018095 Phymatosorus glossus leaf

PATTNNKQLKLLEELFKEYGVRTTTVIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMDLLVGEKYGLKSAIRAEKKRQEEDMERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVAHNGPLNLNSKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKSARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKIFKDRGENVGAWRQACYYPLVDMARGNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:UWOD\_scaffold\_2025982 Plagiogyria\_japonica young leaves

PAATNSKQLKLLEDLFKDYGVRTATIIKVMEMGFTVSTLVNMMEQEIDDVIKTMTEGYHMELLVGEKYGLKSGIRAEKKRQEEEMERQRLQLLAKSGKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVAANGPLNLNSKEHGQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHVEKSKD

>onekp:WQML\_scaffold\_2068699 Cryptogramma\_acrostichoides ster & fert leaves

PPTITNTKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMLEGYHMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKNKSDDSGMVATSAEGTREQRGDNGMMFPDAVAPNGPLNLNSKEHAQQENSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDREKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:WCLG\_scaffold\_2004512 Adiantum\_aleuticum young sterile leaves

PPATNNTKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMMEGYQMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNTKKHKSDDSGMVATSAEGTREQRGDNGMMFPDAVAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:PSKY\_scaffold\_2058265 Asplenium\_nidus leaf

PPAGTSTKQLKLLEDLFKDYGLRNTTIIKIMEMGFTVNTLVNMMEQEIDDVIKTMMDGYHMELLVGEKYGLKSAIRAERKRQEEDMEWQRLQLLAKNGKKHKLDDSGMVATSVEGTREQRGDNGMMFPDAAALNGPLNLNMKEHAQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLEEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNCWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:ZXJO\_scaffold\_2016630 Hemionitis\_arifolia leaf

PPAANNTKQLKLLEDLFKDYGVRSTTIIKVMELGFTVSTLVNMMEQEIDDVIKTMMEGYQMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKHKSDDSGMVATSAEGTREQRGDNGMMFPDAGAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:GSXD\_scaffold\_2012608 Myriopteris\_eatonii young leaves

PPAANNTKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMMEGYQMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKSSKKHKSDDSGMVATSAEGTREQRGDNGMMLPDAVAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:DCDT\_scaffold\_2016115 Cheilanthes\_arizonica sterile leaves

PPAANNSKQLKLLEDFFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMMEGYQMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKHKSDDSGMVATSAEGTREQRGDNGMMFPDAGAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:YCKE\_scaffold\_2064612 Notholaena\_montieliae young leaves

PPAANNSKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMIEGYQMELLVGERYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKHKSDDSGMVATSAEGTREQRGDNGMMFPDAGAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKS

>onekp:KJZG\_scaffold\_2004358 Asplenium\_platyneuron leaves

KQLKLLEDLFKDYGVRNTTIVKIMEMGFTVNTLVNMMEQEIDDVIKTMMEVYHMELLVGEKYGLKSAIRAERKRQEDDVERQRLQLLAKNGKKHKSDDSGMVATSVEGTREQRGDNVMMFPDAVALNGPLNLNTKEHTQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLEEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNCWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:POPJ\_scaffold\_2101632 Pteris\_vittata fronds

PPTTTNAKQLKLLEDLFKDYGVRSTTILKVMEMGFTVNTLVNMMEQEIDDVIKTMMDGYHMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKHKSDDSGMVATSVEGTREQRGDNGMMFPDAVAPNGPLNLNSKEQQENSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMARERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:YIXP\_scaffold\_2001880 Lindsaea\_microphylla young fronds & sori

PLPAVPNPNSVPNSNSKQLKLLEDLFKDYGVRSTTIVKVIEMGFTVNTLVNMMEQEIDDVITTMTEGYHMELLVGEKYGLKSAIRAEKKRQEEDLDRQRLQLMAKNGKKHRSDDSGMVVTSVEGTREQRGDNGMMFPDAVALGDPLNLNSREHVQQEHSHAQFGPPGNLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKVKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:NOKI\_scaffold\_2011879 Lindsaea\_linearis young fronds & sori

PLPAVPNPNSIPNPNSKQLKLLEDLFKDYGVRSTTIVKVMEMGFTVNTLVNMMEQEIDDVITTMTEGYHMELLVGEKYGLKSAIRAEKKRQEEDLDRQRSQLMAKNGKKHRSDDSGMVVTSVEGTREQRGDNGMMFPDAVALGDPLNLNSREHVQQEHSHAQFGPPGNLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNLLRKLFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:FLTD\_scaffold\_2017634 Pteris\_ensigormis young leaves

KQLKLLEDLFKDYGVRSTTILKVMEMGFTVNTLVNMMEQEIDEVIKTMMEGYHMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLAKNSKKHKSDDSGMVATSAEGTREQRGDNGMMFTDAAAPNGPLNLNSKEQQEHSHAQFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:XDDT\_scaffold\_2004989 Argyrochosma\_nivea young leaves

KQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMMEQEIDDVIKTMMEGYQMELLVGEKYGLKSAIRAERKRQEEEMERQRLQLLSSKKHKSDDSGMVATSAEGTREQRGDNGMMLPDAVAPNGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:BMJR\_scaffold\_2008901 Adiantum\_tenerum leaf

PPTTNNSKQLKLLEDLFKDYGVRSTTIIKVMEMGFTVSTLVNMTEQEIDDVIKTMIEGHQMGLLVGEKYGLKSAIRAERKRQEEEMERQRMQLLGAKNSKNHKSDDSGMVATSAEGTREQRGESGMILPDAAAPKGPLNLNSKEHPQQEHSHAHFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:UJTT\_scaffold\_2010715 Pityrogramma\_trifoliata leaf (maybe sporangia)

PPSTANAKQLKLLEDLFEDYGVRSTTILKVMEMGFTVNTLVNMMEPEIDDVIKTMVDGYHIELLVGEKYGLKSAIRAERKRQEEETERQRLQVLAKSSKKHKSDDSGLVATSFEGAREQRGDNGMMFPDAVAPNGPLNLNSKEQQEHSQALFGPPGLLALPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQMARERGEKCPTKVLVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNCLRKQFKERGENVGAWRQACYYPLVEMARDNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:SKYV\_scaffold\_2001904 Vittaria\_lineata leaf, mostly sterile

SKLLEDLFKDYGVRSTTIMKVMEMGFTVSTLINMMEQEIDDVIKTMIEVYQMELLVGEKYGLKSAIRAERKRQEDETERQRLLLLAKNSKRHKSDDSGMVATSGEGTREQRGDNGMMLPDAVAPSGPLNLNSKDHPQQEHSHAHFGPPGLLVLPEPSSDNEGCKVTRKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCGRFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKQFKERGENVGAWRQACYYPLVDMARDNGGGIESIFIRNEKLRIWYVPTKLRQLCHLERSKD

>onekp:PBUU\_scaffold\_2012780 Lygodium\_japonicum sterile & fertile leaves

PPLFPSNNKQLKSLEDLFKDYGVRITTIVKILEMGFTVNTLVNMTELEIDDVIKTMIEGFQMELLVGERYGMKSAIRAERKRQEEELERQRLQILSKNSKKQKPDDSVMAATSVEGSREQRGDNGIMFPDTLAVTGPLNLNSKEHLLPEQSPAKFGPPGLMALPEPSSDNEGRKLVRKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDREKSNYLRKLFKERGENVGAWRQACYYPLVEMARENGWDIEGVFIRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:CQPW\_scaffold\_2003265 Anemia\_tomentosa sterile leaf

PPTPASSNKQLKSLEDLFKDYGVRVATIVKVLEMGFTVNTLVNMTEQEIDDVIKTMIEAFHTELLVGERYGMKSAIRAERKRQEEELERQRLVILSKTGKNQKPDDSVLAATSMEGSREQRGDNAMMFSDAIVVNGPLNLNSKEHLLQSHAKFGPPGLMALPEPSSDNEGRKIARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDREKSNYLRKLFKERGENVGAWRQACYYPLVEMARENGWDIEGVFIRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:UOMY\_scaffold\_2080585 Osmunda\_sp. gametophyte

PSNRKQMKSLEDLFKDYGVRLTTIAKVMELGFTVNTLVNMTEQEIDDVIKTMLEGYRIELLVGEKYGLKSAIRAEKKRQEEEMERQRMQLLSKSGKKRKPDDSAMVATSMDGTREQRGDNGMMFPDAVAAVGPLNLNSKEPLLLEQSHAQFGTPGLLAIPEPSSDNEGRKLGRKKQKRRLSREPGEDGDDRPREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISKERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDLEKSNHLRKLFKERGENVGAWRQACYYPLVDMARENGWDIEGVFNRNEKLRIWYVPTKLRQLCHQEKSKD

>onekp:CVEG\_scaffold\_2031619 Azolla\_cf.\_caroliniana sterile leaves

PVTPTHSKQIKLLEDLFKDYGVRAATIVKFMEMGFTFNTLVNMIEPEIDDVIKTMVEGYQMELLVGERYGLKSAIRAEKKRQDEEVERQRLKTLGNSNGKKQKLDDNGTAVTSAEGNREQRGDNGIMFLDAVATNGPLNLNSREHAQQEHSHAQLGPPGLLAIPEPSSDNEGRTLVRKKQKRRLSSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCGRFLDEVQQMSRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKLYKERGENVGAWRQACYYPLVEMARANGWDTEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:VIBO\_scaffold\_2005768 Osmunda\_javanica mature leaves

PSNRKQMKSLEDLFKDYGVRLTTIAKVMELGFTVNTLVNMTEQEIDDVIKTMLEGYRIELLVGEKYGLKSAIRAEKKRQEEDMERQRMQLLSKSCKKRKPDDSAMVATSMDGTREQRGDNGMMFPDAVAAVGPLNLNSKEPLLLEQSHAQFGTPGLLAIPEPSSDNEGRKLGRKKQKRRLSREPGEDGDDRPREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISKERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDLEKSNHLRKLFKERGENVGAWRQACYYPLVDMARENGWDIEGVFNRNEKLRIWYVPTKLRQLCHQEKSKD

>onekp:MEKP\_scaffold\_2108290 Dipteris\_conjugata young leaves

KQLKSLEDLFKDYGVRLTTIAKVMEMGFTVSTLVNMTEQEIEDVIKTMLEGYHIDLLVGEKYGFKSAIRAEKKRQDEEMEQQRLQLLSKSGKKRQPDEIATSMEGTREQRGDNEMMFPDAVAAGGPLNSKEAVLLEQSHAQFGPPGLLAIPEPSSDNDGRKLGKKKQKRRLSREPGEDGDDKPREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISKERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDLEKSNHLRKMFKERGENVGAWRQACYYPLVEMARENGWDIEGVFNRNEKLRIWYVPTKLRQLCHQEKSKD

>onekp:CVEG\_scaffold\_2125709 Azolla\_cf.\_caroliniana sterile leaves

LEDLFKDYGVRTSTTVKFLEMGFTVNTLVNMTEPEIDDVITTMMEGYQMELLVGEKYGLKSAIRAEKKRQEEEIEQQRLQCLGKNGKKHKLDEYSGIASTSAEGTREQRGDNGMMMLDAIATDGPLNLNSNEHLQQEHIHSGFSLPGVLPMPEPSSDDNEEQKFARKKQKRRLLREPGGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCASFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKLYKERGENVGAWRQACYYPLVEMARTNGWDIEGVFVRNEKLRIWYVPTKLRQLCHLEKSKD

>onekp:KIIX\_scaffold\_2012644 Pilularia\_globulifera young leaves

PIPNPNPNSNSKQLKLLEDLFKDYGVRVTTIVKFLEMGFTVSTLVNMTEQEIDDVIKTMTEGFQIELLVGEKYGLKSAIRAEKRRQEEEVERQRLQLLSKSKKHKSDDSGMVVTSAEGTREQRGDNAMMFLDAGVTNGPLNLNSKEHTQQDHSHAQFGPPGLLAIPEPSSDNEGRKLARKKQKRRLSREPGEDGDDRTREHPFIVTEPGEVARGKKNGLDYLFDLYEQCARFLDEVQQISRERGEKCPTKVTNQVFRHAKLKGASYINKPKMRHYVHCYALHCLDKEKSNFLRKLYKERGENVGAWRQACYYPLVEMA

>onekp:EWXK\_scaffold\_2021182 Thyrsopteris\_elegans young leaves

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>onekp:URCP\_scaffold\_2006393 Athyrium\_filix\_femina young leaf

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>onekp:NWWI\_scaffold\_2031159 Nephrolepis\_exaltata young leaf

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>onekp:XXHP\_scaffold\_2011093 Cystopteris\_fragilis fronds

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>onekp:FCHS\_scaffold\_2007396 Deparia\_lobato fertile leaf

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>onekp:NDUV\_scaffold\_2012951 Vittaria\_appalachiana gametophyte

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>onekp:PNZO\_mergedscaffolds\_2024395\_2026047\_Culcita\_macrocarpa young leaves

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>onekp:QIAD\_scaffold\_2007026 Hymenophyllum\_bivalve young fronds

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>onekp:TRPJ\_scaffold\_2004493 Hymenophyllum\_cupressiforme young fronds &sori

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>onekp:OQWW\_scaffold\_2029676 Davallia\_fejeensis leaf

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>onekp:HTFH\_mergedscaffolds\_2000526\_2035984\_Onoclea\_sensibilis leaves

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>onekp:UJWU\_scaffold\_2067330 Pleopeltis\_polypodioides dehydrating fronds

KQLKLLEDLFKEYGVRSTTIIKIMEMGFTVSTLVNMMEQEIDDVIKTMMEGYHMDLLVGEKYGLKSAIRAEKKRQEEDMERQR

**Genome sequence**

> *Thalictrum thalictroides* Tt\_Genome\_WT478-4-170\_contig\_108877\_consensus

TTCAGAAAACAAATTGGTTTATTAATCTTATCCAACAATGGAAATTGATTATATTATCATTCATCTTGTTACCATATTATCCAAATGCCACAGAGAAGTAATTTTCCTGTTCAGTAATTCTCCGAAATTGGTTTACTAATCAAAATCTTATTTTTGTCCTGTTCAGTAATTTTCCGAAATTAATTACAATGGCCACAGAGAAGTAGAGAACCCATCTCTGTGACCGGCCACAGAATACCCGGACTCCTAAAAAGAACTGCTGAGAAACCAATTAATAATCTCTTGCCAGTTGCCACTGACCATTGTGGTGAGAGTAAATCTGCATGCAGGAGAGAAAGTACAGATAAGGTATCATGCAGAGATGCTCCAGGCGTGAATCAAACCCTAGCTGTCCAGCTAACTCAAAGCAGAGCTATCAAACCATCTGAAAAAGGCTGTTAGTTTTTGTACTTTCAAACCAATCCTATCTCTGATCTCTCTGCTGCTACCTATACAATACAACATGGATCTATTTTGTACATATCTCGAGGTGTGGTCTATCAATGTTTTGGAAGTCAACACGTATTTCTGATGGTTCAGCTATGCTAGCTTTTAGTACATAATACTAGCTGAGTTGTGTAGGCACTTCACTTATCCACAATACTGTATATATATATAAATATCACAGTTTTGAATGCGCCTTTGGTACAATGCTATGGTTGTTGGTACTTGGTAGTGTATTGATCGAGCATTTCAGCTATTGGCATTGCACCAGTGGTTCAACCATGCTGATGAGTCCATAAGACCATGATGACCCTAGCTCCAACATGATGTCATCAAGAATACAATACATAGTACTACAGTAACTAGTAGTAATAAACTGCAACCAAGTTCATTTTTACAACATTGAATTGGAAAATGGAAATGCATTCCCAAATCCCAACCATTACTTATCATCTAACCATGCAAAAATCACATATCCTCTAGCTTGTGGCATGTTGTAATTTTCACTAAAACCAAGGTCAGCTTAATGTTCAATTCATTATTCACCCTAATTACTTATTAGCAAGCAGGTTCGTTGAATGAGCTAGAAATAAAGCTAGATCTGAAGAGAAACAAGCAAGAAAGACCACACACACATACACAAACCCTGCAGACAGATCGACTCTAATTTGTTGTAGCTAGCCAATGGATTCAGAACCATTCTCAACAAGCTTATACAAGTGGGACACAAGAGCAACAGCAGCAGCAGCTGCACCACACCGCTTGCAGTTTGAACATATGGCTATTGCACCACCACCACCACCACAACAACCATCATCATTTCCACCTTATTGTGTGACAACCAGACCACCAGCAAGAGAACTACTTTTAACTCTTGAAGACTTCTTTCAGCCATATGGCATTCGTTACACTATGATTGCAAAAATAGCTGAGTTAGGCTTCACTGTAAGCACACTTTTAGACATGAAAGATGAAGAGCTTGATGATATGATGATTACTCTTTCTCAAATAGTTCGGATTGATTTACTTGTTGGTGAAAAATATGGTATCAAAGCTGCTATTCGTGCTGAACGTCGTCG

>*Thalictrum thalictroides* Tt\_Genome\_WT478-4-170\_contig\_116935\_consensus

AAGAAGATGATGAGAATGCTGGAGCTGGACGTGGTCGTTGTCATAGACAAAGAGAGCATCCATTTGTAGTTACTGAACCAGGTGAAGTTGCAAGAGGAAAAAAAAATGGTCTTGATTACTTGTTCCATCTCTATCAAGAATGTAGTCAATACTTGATTCAAGTTCAAAACATTGCTAAGGATAGAGGTGAAAAATGCCCAACCAAGGTATGAATGTATATATGATCATCACTTAGTTTTACAATTTTTTTTTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAAAAAAAAAACCAGATAAAAATTGTACTATTAAACAGGTAGGAAAAGTTGTTACAAAATATCTATGAAAAATGTCAGATGGAAGTATTTAAGACACAAGTCATTCTTATATCCAACAGTCATTTTTTATCACTATAGTTCAGACTTCAGAGTTCAGACCAATCTAGGGCGAATTTGTCAAAACCACACTCGAACATTGTGTAATTTGCATGAACCCTATCAAAAGAAATAAATTTTTGGTGTTCTTAATATCTGCAACATTTTTTTTTGTCAAACCATTATCTGACACTACAAATTGCAGTTTAATCTGCTTGTAAAATGTAGAGAAATGATAACAATCCGGCCATCTTATTCGATGGTATATATGCATATATATATATGCAGGTGACGAATCAGGTGTATCGACATGCAATTCAGGCTGGTGCAACTCATATCAACAAGCCTAAAATACGACATTATGTTCACTGTTATGCTCTGCACTGCCTAGATGAACAAGTATCTAATGCGCTGAGGAAAGCTTACAAAGACCGAGGTGAAAATGTTGGGACATGGAGGCAAGCATGCTATGAACCTCTTGTGAAATTGGCTAGTGATCATCACTACGATATTGATGCCATTTTTAATGATCATCCCAGCCTTTCTATTTGGTATGTACCTACAAAGCTTCGTAAGCTCTGTCATGCTCAACGCAACAATGTTGTCTCTGCTTCAAACTCAGCTTCATTCTGATCTAGCTAGTCTAGCTCCTTATGAGTGGTCAGTGAGGTTATGTTATTGTAGTACTATATTTGAATATTTTCGTGTTTTCGTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGACAGCACTGAATGTTAACTTTGCCATGCTATTGTAGTATATTTGTATCATGGAACTTCAATTGGTTTACACAAACACATTCCACACACCTGATTGCAAAACCCTAATATAATTAGATCTTTCAGCTTAACATATTGATGATACTTCAGGATTATGAATACATCCACCAAAAAATCCTGTTCAAATTTCAAAATAACCCAGTTAAACGCAAATAAATCACTGATCAGTAATCAATAGAACTACACAATTATCATGTCCATGCCCCCTCTTGAGCCTGGAGTGAGCCAAATCAAAGTCAAAGAGAATGTTTCAACGATTTTCCTGCAGCAAGAAATAAAATAGAATCTACTACACTGATTAGATACTTCTGATTATTGTATATAGGAATAGGTTACGATTGAACTTGATCGAAATAAAAATGTGTTTTGCAATCTGATCCACATTTCTTAGCACCTAACTAGACTATAAGCAAGCCTAACACAGGTTTCTTCCAGGCAAACTGCACTCCTGCAACTAGCACATAACATGTTCAATTGACTTCTAAATAGTTGCTCCCAGCTGAAAACTGAGTCCTTAAACTTCATGATGAAAACAGATAACAACCTTAGATCGAAGGCCTTCCAATATCTCTACATTGATTCTAGGCAATCTTTGCATCTACCTAATGGCACATTTGCATCCTCCATGAAGGTTGGTCCATGGACAGTTGTTTTTATTAGGGTATTCTATGCTTATCATGCAATAGATCTTAAAAGTTAAGTCTCATCACATTAAGACTATCACGGCAACTCTGTGAGATCCAGACAAAACCTTTCCATCGAGAGAAGTTTCAATGCAAAACCCGATTTGTGAATGAAAACAAACATTATGACAATTTTACAAAAGACTCCATATGAACTTGCTATTTTGTTCATTAATGCCCAGAATGTCTCTTTGTCCAAAAGTATAAAGGGTATGGTAAATCTTACCTCAACAAAGTAACAACATTGCCCATGAGATACGGAGACAGTGTAATTACAATTTGAGTAGACGCAGTCGTTTTAGACAATGTGGTTCAAAAGAATTCACCCTGAGGGAGAACAAACTCTTTATTATTTTCTTTACTAGTATAAATATATACTGAGTTGGAGTTCCTTATGTCTAGTAGAACATATCTTGGGCAGGCAATGCATGATACCATGGCTGGCGTTGATCTGTTCATCCCTATGTATTGCAAACAGAAATGATTAATAAGTCAAAAGAAACTATCCAACTAGAATATAACTATGTGCAAAGCAAGGCGACAAGAAAAAGGGTACTGCCGGTATTGCTAGAACATATTGGCTTATTACTAGTACTTGGCCATTTGTAGCATGAATTACTTTATCTCAGGGAAAATTAAGTTGCCTAATAAAACACAAAGGCACTTGATATCGATGGAAGTAGCCCATAATAAAGTTACAGGGTTATCTCATATATATGTGCTAGTAATGTGCTTACTGAAGTGCCATGTTTATGGTAAAAGAATATGTGATAAACAGTATCTCCTTTGTTCATCCACCTGGAGAGAAGCTAACTCTGCTGCGGATGCCCTTGCAAACAAAGGTGCAGATTTAGGAGTTGATGTTAGGGAAAATTTTGTTAGTAGGCCACCATTCCTTCAAAGGGTGGAGGACCCACATAGCTGTTACTTTAGGTTTAGGTTTAAGGACTAGTATTTTGTGTACCGTCCTCACATTGTTTTCCTTTTTCCTGTTTTCCTTTTTCTTTCTCTTTGTAAATCTTTTCTTCCACAGTTTAATAAAATTGCAACTTATCAAGGAAAAAAAAAAGTATCTCCTTTGAAAAACTCCCATTTTTATTATGAGTTAGAAGTTCTATGTTGGCCTAACCCCTATATAATTGATGTTCATTCTTCAATTTTCTTCCACGTTAAAAGAATTACGTTCAAGGCCAGTATACCCCCAAGATGAAAGGAAACAAAGCAATTCCCCAACCCCCCGCGGCAACACCAGTAAAGTAAGTATAGCAATATATTCAGAGGTAACTTCTTCGTCTTCAATAATATACGCAAATAGATGTCTCTTTTCTTTCTTAGGGAAGTCAGTTTCCAAACGCCCAACCTCATTGTAGTTGTAACATTTGTGCCCTGGATTAAAACCACTTGGGAGCAGAATTGATGGCTGTAGGAAGTAAAGGATATTGT

>*Thalictrum thalictroides* Predicted LFY Protein

MDSEPFSTSLYKWDTRATAAAAAPHRLQFEHMAIAPPPPPQQPSSFPPYCVTTRPPARELLLTLEDFFQPYGIRYTMIAKIAELGFTVSTLLDMKDEELDDMMITLSQIVRIDLLVGEKYGIKAAIRAERR-----------------------------------------------EDDENAGAGRGRCHRQREHPFVVTEPGEVARGKKNGLDYLFHLYQECSQYLIQVQNIAKDRGEKCPTKVTNQVYRHAIQAGATHINKPKIRHYVHCYALHCLDEQVSNALRKAYKDRGENVGTWRQACYEPLVKLASDHHYDIDAIFNDHPSLSIWYVPTKLRKLCHAQR